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M A T E R I A L   S A F E T Y   D A T A   S H E E T

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME : 200 Construction Adhesive  
IDENTIFICATION NUMBER: CX71-200 DATE PRINTED: 02/16/99  
PRODUCT USE/CLASS : Adhesive

SUPPLIER:

MANUFACTURER:  
ChemRex Inc.  
Industrial Division  
889 Valley Park Drive  
Shakopee, MN 55379

EMERGENCY TELEPHONE:

EMERGENCY TELEPHONE: 800-424-9300  
24 HRS A DAY 7 DAYS A WEEK

PREPARER: Scott Shinn, PHONE: 612-496-6000, PREPARE DATE: 02/15/99

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	n-hexane	110-54-3	30.0 %
02	Kaolin	1332-58-7	20.0 %
03	Silica, quartz	14808-60-7	1.0 %
04	Calcium carbonate	471-34-1	40.0 %

ITEM	EXPOSURE LIMITS					
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	50 ppm	N.E.	180 mg/m3	N.E.	N.E.	NO
02	2 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
03	.1 mg/m3	N.E.	.1 mg/m3	N.E.	N.E.	NO
04	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

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SECTION 3 - HAZARDOUS IDENTIFICATION

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EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritating, but will not permanently injure eye tissue.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: Headaches, dizziness, nausea,

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SECTION 3 - HAZARDS IDENTIFICATION

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decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic overexposure to n-Hexane may cause peripheral polyneuropathy and central nerve damage. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") may be harmful or fatal. Preexisting respiratory or skin condition(s) may be aggravated by exposure. This product contains silicon dioxide [quartz] which has been listed as a suspected human carcinogen by NTP and IARC.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION EYE CONTACT

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SECTION 4 - FIRST AID MEASURES

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FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: Get medical attention immediately. If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

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SECTION 5 - FIRE FIGHTING MEASURES

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FLASH POINT: <0 F [TCC]

LOWER EXPLOSIVE LIMIT: 1.2 %

UPPER EXPLOSIVE LIMIT: 7.5 %

AUTOIGNITION TEMPERATURE: N/D

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire produces irritating or poisonous gas. Vapors can travel to a source of ignition and flash back. "Empty"

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SECTION 5 - FIRE FIGHTING MEASURES

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containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Solid stream of water or foam may cause frothing.

SPECIAL FIREFIGHTING PROCEDURES: Containers exposed to fire should be kept cool with water spray. Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled liquid. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

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SECTION 7 - HANDLING AND STORAGE

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HANDLING: Use only in a well ventilated area. Keep out of reach of children. Ground and bond containers when transferring material. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

STORAGE: Keep away from heat, sparks and flame. Keep container closed when not in use.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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HYGIENIC PRACTICES: Do not take internally. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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BOILING RANGE	: 149 - 159 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Paint thinner	ODOR THRESHOLD	: N/D
APPEARANCE	: Smooth semi-paste	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Slight <1%		
FREEZE POINT	: N/D	SPECIFIC GRAVITY	: 1.2200
VAPOR PRESSURE	: N/D	pH @ 0.0 %	: N/D
PHYSICAL STATE	: Solid	VISCOSITY	: N/D
COEFFICIENT OF WATER/OIL DISTRIBUTION: N/D			

(See Section 16 for abbreviation legend)

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SECTION 10 - STABILITY AND REACTIVITY

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CONDITIONS TO AVOID: Sources of ignition. Long term exposure to elevated temperatures.

INCOMPATIBILITY: Avoid contact with oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: No Information.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

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SECTION 11 - TOXICOLOGICAL PROPERTIES

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PRODUCT DERMAL LD50: No Information	PRODUCT ORAL LD50: No Information
PRODUCT LC50: No Information	

COMPONENT TOXICOLOGICAL INFORMATION:

---- CHEMICAL NAME ----	-- DERMAL LD50 --	--- ORAL LD50 ---	----- LC50 -----
n-hexane	No Information	45 ml/kg	48000 ppm/4H
Kaolin	No Information	590 gm/kg	No Information
Silica, quartz	No Information	No Information	No Information
Calcium carbonate	No Information	6450 mg/kg	No Information

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SECTION 12 - ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: No Information.

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SECTION 13 - DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

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SECTION 14 - TRANSPORTATION INFORMATION

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DOT PROPER SHIPPING NAME: Adhesives

DOT TECHNICAL NAME:

DOT HAZARD CLASS: FLAMMABLE LIQUID                      HAZARD SUBCLASS: N/A

DOT UN/NA NUMBER: UN1133                      PACKING GROUP: III                      RESP. GUIDE PAGE:

DOT PLACARD AT: 1000 lbs

DOT CLASS NUMBER: 3

UN PROPER SHIPPING NAME: Adhesives

UN HAZARD CLASS: FLAMMABLE LIQUID

UN CLASS NUMBER: AIR    3                      MARINE    3

HAZARD SUBCLASS: AIR    N/A                      MARINE    N/A

UN UN/NA NUMBER: UN1133                      UN PACKING GROUP: AIR III                      MARINE    III

UN PLACARD AT: N/A

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SECTION 15 - REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD    CHRONIC HEALTH HAZARD    FIRE HAZARD

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SECTION 15 - REGULATORY INFORMATION

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## SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
n-hexane	110-54-3	30.0 %

## TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
n-hexane	110-54-3

## CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
Silica, quartz	14808-60-7

## INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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SECTION 16 - OTHER INFORMATION

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HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 3      REACTIVITY: 0  
PERSONAL PROTECTION: G

PREVIOUS MSDS REVISION DATE: 10/15/98

REASON FOR REVISION: Addition of extinguishing media.

VOLATILE ORGANIC COMPOUNDS (VOCs): 2.78 lbs/gal,    334 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,  
N.D. - Not Determined

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<END OF MSDS>